

# U.S. Department of Energy Office of Fossil Energy

## Beryllium Legacy Issues

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# Office of Fossil Energy (FE)

- Strategic Petroleum Reserve
  - New Orleans Site Office, Four Sites - LA & TX
- National Energy Technology Laboratory
  - Pittsburgh, PA & Morgantown, WV
- Rocky Mountain Oil Technology Center
  - Casper, Wyoming
- Albany Research Center
  - Albany, OR

# FE Facilities

- Government Owned-Government Operated
- Contractors on site are for DOE support
- Subject to OSHA Jurisdiction
- Comply with all DOE Regulations and Orders
- Not subject to 10 CFR 851 but will comply with intent

# Albany Research Center (ARC)

- Metallurgical Research Laboratory Former Bureau of Mines Facility
- Became FE Facility in 1996
- Researchers address fundamental mechanisms and processes; melt, cast and fabricate up to one ton of materials; completely characterize the chemical and physical properties of materials; and deal with the waste and by-products of materials processes.
- 81 Federal Employees in 30 Buildings

# ARC Beryllium Legacy

- Nov. 2003 Safety Meeting
- No Current Beryllium Operations
- Little Institutional Knowledge
  - Be Research Scope Unknown
  - Few Current Employees
  - No project records
- Employee Notification
- August 2004 Review of existing records

# ARC Safety Office Records

- AEC Classified Research 1960 – 197?
- General Activity Descriptions – No project files or Be program outline
- Sampling and Ventilation Survey Logs
- BZ and Swipe sampling results
- Locations of beryllium operations and research
- Medical Surveillance Program Information

# ARC Beryllium Information

## ■ “OWL” Room

- Casting (?) and Machining

## ■ Support Laboratories

- Six Labs?

## ■ 60+ Employees Involved

- Bi-weekly Spirometry
- Annual Physical Exam
- Close-out Physical

# Complications to Consider

- No AEC/DOE Beryllium Work since 1980
- Classification Concerns
- Possible non-AEC Beryllium Research
- 1989 “OWL” Room FUSSRAP Cleanup
- “OWL” Room is now the ARC Wellness Center
- Although ARC is a EEOICPA Rad site, ARC is not a EEOICPA covered Beryllium site prior to DOE taking ownership in 1996



# FE/ARC Next Steps

- Interviews with retired Deputy Manager and Safety Director
- Interviews with 3 current Be workers
- Define Locations of Interest
  - “OWL” Room
  - Laboratories in six buildings
- Develop Sampling Strategy
- Develop Beryllium Inventory & CBDPP

# BHSC Issues

- Swipe Sampling Methodology & Recommendations
- Swipe Sampling Strategy Guidance (Statistical Approach)
- Non-Beryllium Operations Surface Contamination Clearance Criteria
- Statistical Package (R)